

20030620.qrp v02_n957.qrl.20030620

Date: Fri, 20 Jun 2003 19:03:12 EDT
From: qrp-l@Lehigh.EDU
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: QRP-L digest 2957

QRP-L Digest 2957

Topics covered in this issue include:

- 1) [152571] Whatever happened to all those PSK-80 Warblers?
by Michael Babineau <michael.babineau@sympatico.ca>
- 2) [152572] Re: [ham] Front end mixers
by KD5NWA <KD5NWA@cbayona.com>
- 3) [152573] Morse RTC
by "Steven Weber" <kd1jv@moose.ncia.net>
- 4) [152574] RE: [radio] Whatever happened to all those PSK-80 Warblers?
by "David Bixler" <qrp@netins.net>
- 5) [152575] Re: Morse RTC
by Ed Tanton <n4xy@earthlink.net>
- 6) [152576] Re: Morse RTC
by "Lawrence Makoski" <Makos327@worldnet.att.net>
- 7) [152577] Re: Morse RTC
by "Mike Yetsko" <myetsko@insydesw.com>
- 8) [152578] Re: [ham] Morse RTC
by KD5NWA <KD5NWA@cbayona.com>
- 9) [152579] AmQRP website - Reference page now online!
by "George Heron N2APB" <n2apb@erols.com>
- 10) [152580] Re: guidance on modifying the tenna dipper
by "Steven Weber" <kd1jv@moose.ncia.net>
- 11) [152581] Stirling Engine demo kits inadequate for practical generator
by "Stuart Rohre" <rohre@arlut.utexas.edu>
- 12) [152582] TICK-4 instructions wanted
by Bob Nielsen <nielsen@oz.net>
- 13) [152583] Re: TICK-4 instructions wanted
by Bob Nielsen <nielsen@oz.net>
- 14) [152584] Re: [ham] WTB: Ten Tec 217 CW Filter
by KD5NWA <KD5NWA@cbayona.com>
- 15) [152585] Re: [ham] Internet Problems
by KD5NWA <KD5NWA@cbayona.com>
- 16) [152586] RE: QRP windmill
by "Larry Sorrow" <ke4itn@corrcomm.net>
- 17) [152587]
by JD Delancy <W1JD@drix.net>
- 18) [152588] BLT does 6m!
by "Jerry Felts" <nr5a@rap.midco.net>
- 19) [152589] Wooden alternator

by KC8WBK <cruisenewsnet@yahoo.com>
20) [152590] wtb ldg rt11
by <n2go@arrl.net>
21) [152591] Re: QRP windmill
by Tim Groat <tcgroat@earthlink.net>
22) [152592] Re: Morse RTC
by "Tim, N9PUZ" <n9puz@arrl.net>
23) [152593] morse rtc clock etc.
by Gary Lee <kb9zuv@arrl.net>
24) [152594] FS/SWAP/WTB: Paddles
by Dale Botkin <dale@botkin.org>
25) [152595] Guidance on modifying the tenna dipper
by "McCloskey, Anthony" <AMcCloskey@mail.intracorp.com>
26) [152596] Re: Morse RTC
by "Bill Linn" <blinn@smgazette.com>
27) [152597] FS: IC-703
by n1ix@att.net
28) [152598] 6mtr Calling Freqs
by Chuck Carpenter <w5usj@9plus.net>
29) [152599] Source for VN 10 mosfets?
by Tom Bowman <wa3rey@comcast.net>
30) [152600] Miniature loudspeakers
by "Leon Heller" <leon_heller@hotmail.com>
31) [152601] Re: Whatever happened to all those PSK-80 Warblers?
by Alex <kr1st@amsat.org>
32) [152602] Re: Whatever happened to all those PSK-80 Warblers?
by "John J. McDonough" <wb8rcr@arrl.net>
33) [152603] Re: QRP windmill
by Alex <kr1st@amsat.org>
34) [152604] Re: Update on the Walgreens clock
by "Doc - W5TB" <w5tb@arrl.net>
35) [152605] Re: Morse RTC
by steve.lawrence@itwfeg.com
36) [152606] ARRL article on Broadband over Power Line available on the ARRL page
by "Hare,Ed, W1RFI" <w1rfi@arrl.org>
37) [152607] Anybody doing QRP FD in MD?
by Lloyd Lachow <llachow@yahoo.com>
38) [152608] Re: Source for VN 10 mosfets?
by "Noyce, Bill" <william.noyce@hp.com>
39) [152609] Re: ARRL article on Broadband over Power Line available on the ARRL
page
by Alex <kr1st@amsat.org>
40) [152610] [Q] anyone QRP FD in Chicago area?
by Ken Hopper N9VV <n9vv@wideopenwest.com>
41) [152611] CW Paddle
by James Crofutt <crokcc@comcast.net>
42) [152612] RE: ARRL article on Broadband over Power Line available on the ARRL
page

by "Carl Heidenblad" <carlh@adamslibrary.org>

43) [152613] RE: ARRL article on Broadband over Power Line available on the ARRL page
by "Hare,Ed, W1RFI" <w1rfi@arrl.org>

44) [152614] OT: SuSe 8.2
by The Wheelers <rains@digisys.net>

45) [152615] Re: ARRL article on Broadband over Power Line available on the ARRL page
by "Noyce, Bill" <william.noyce@hp.com>

46) [152616] RE: Morse RTC
by "Ian Wilson" <ianmwilson@earthlink.net>

47) [152617] Fox - Summer Fox Hunt Teams Results.
by Bruce Rattray <rattray@gpfn.sk.ca>

48) [152618] Fox - Summer Fox Hunt Teams Results.
by Bruce Rattray <rattray@gpfn.sk.ca>

49) [152619] Re: Source for VN 10 mosfets?
by "Noyce, Bill" <william.noyce@hp.com>

50) [152620] FOX - AC7A June 22, 2003
by ac7a@earthlink.net

51) [152621] Fox: Fox N0IT June 22, 2003
by "Dave Sjolín" <sjolin@swbell.net>

52) [152622] RE: ARRL article on Broadband over Power Line available on the ARRL page
by "Hare,Ed, W1RFI" <w1rfi@arrl.org>

53) [152623] FW: ARRL article on Broadband over Power Line available on the ARRL page
by Adam Farson <farson@shaw.ca>

54) [152624] Re: 6mtr Calling Freqs
by William R Colbert <w5xe@juno.com>

55) [152625] bands back to normal?
by William R Colbert <w5xe@juno.com>

56) [152626] Miniature speaker tested
by "Leon Heller" <leon_heller@hotmail.com>

57) [152627] Transistor switching question?
by Doug Faunt N6TQS +1-510-655-8604 <faunt@panix.com>

58) [152628] Re: FW: ARRL article on Broadband over Power Line available on the ARRL page
by Alex <kr1st@amsat.org>

59) [152629] Definitely ON topic "atomic clock" response
by "Joe Everhart" <n2cx@voicenet.com>

60) [152630] Re: IC-703
by "JessMX5" <jessmx5@earthlink.net>

61) [152631] The end of the PTT button
by Alex <kr1st@amsat.org>

62) [152632] OT - 32 Volt Farm Electrical Systems
by "cal.jsi" <cal.jsi@verizon.net>

63) [152633] RE: The end of the PTT button
by Adam Farson <farson@shaw.ca>

64) [152634] Re: bands back to normal?
by Karl Larsen <k5di@msn.com>
65) [152635] Re: OT - 32 Volt Farm Electrical Systems
by "Brian.Buydens@usask.ca" <buydens@duke.usask.ca>
66) [152636] Re: The end of the PTT button
by "Leon Heller" <leon_heller@hotmail.com>
67) [152637] Re: The end of the PTT button
by Alex <kr1st@amsat.org>
68) [152638] Re: Whatever happened to all those PSK-80 Warblers?
by John Rollins <kd7bcy@teleport.com>
69) [152639] HW-8
by "Mike Warner" <mdwarner@paonline.com>
70) [152640] Re: The end of the PTT button
by "Bill, N4QA" <n4qa@hotmail.com>
71) [152641] Re: Wooden alternator
by <ah7i@atl.org>
72) [152642] Re: Wooden alternator
by "Mike Yetsko" <myetsko@insydesw.com>
73) [152643] Re: OT - 32 Volt Farm Electrical Systems
by Lee Mairs <lmairs@direcway.com>
74) [152644] Re: The end of the PTT button
by "carl seyersdahl" <carlseye@tampabay.rr.com>
75) [152645] Re: The end of the PTT button
by Wayne Rogers <w5kdj@juno.com>
76) [152646] Re: Wooden alternator
by Peter Burbank <peterlee@qx.net>
77) [152647] Appalachian Trail QRP expedition to Woody Gap (near Suches, GA)
Sat 6/21/03 1600Z - 2200Z AE4GX
by "Sam Billingsley" <sambillingsley@earthlink.net>
78) [152648] Re: Wooden alternator
by Dave Fouchey <dafouchey@comcast.net>
79) [152649] Re: Whatever happened to all those PSK-80 Warblers?
by Thom LaCosta <baltimoremd@baltimoremd.com>
80) [152650] 10 meters
by psschwarz@kellnet.com

Date: Thu, 19 Jun 2003 19:04:45 -0400
From: Michael Babineau <michael.babineau@sympatico.ca>
To: qrp-l@Lehigh.EDU
Subject: [152571] Whatever happened to all those PSK-80 Warblers?
Message-ID: <6AE7AB55-A2AA-11D7-8C3C-00039309268A@sympatico.ca>
Mime-Version: 1.0 (Apple Message framework v552)
Content-Type: text/plain; charset=US-ASCII; format=flowed
Content-Transfer-Encoding: 7bit

I resurrected my NJQRP PSK-80 Warbler and finally put it into an

enclosure.

I have been hanging out around 3.580 for the past few nights after 10pm eastern calling CQ with no takers.

At least I have had W1AW at 3.5815 to keep me company!

Where did everybody go? Anybody in the East still doing PSK-31 on 80M?

Michael VE3WMB

P.S. Anyone else have low output on their rev C Warbler?

I'm getting about 1.5W and coincidentally seem to have low

RX audio as well ... wondering if somehow the two are related.

I had to resort to enabling the 20db Boost in the advanced tab on my windows Recording Control panel and I am using the MIC input on the laptop.

Date: Thu, 19 Jun 2003 18:12:18 -0500

From: KD5NWA <KD5NWA@cbayona.com>

To: dale@botkin.org,

"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>

Subject: [152572] Re: [ham] Front end mixers

Message-ID: <5.2.0.9.0.20030619181211.00a937e8@127.0.0.1>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"; format=flowed

A dual gate MOSFET mixer is an entirely different beast, but it can do a good job, hang on to those transistors, they are getting hard to find.

When I was mentioning, "A design not used yet in many Ham radios" that doesn't say it has not been used at all, it's just that there are very few Ham radios that use it.

I'm rambling just to clear the air, from past experience sometimes persons read something in a message that isn't there.

At 05:36 PM 6/19/2003, Dale Botkin wrote:

>On Thu, 19 Jun 2003, KD5NWA wrote:

>

> > A design not used yet in many Ham radios is using FET analog switches as
> > the mixer elements, it has superior performance when compared to either and
> > very low power requirements.

>

>I dunno that it hasn't been used yet -- isn't that what I see in many
>older designs from the 70s and 80s that use a 40673, 3N211 or similar

>dual-gate MOSFET? I thumb through my 1990 edition of "QRP Classics" and
>it looks like about half the projects use them instead of DBMs or 602s.
>Now, finding dual-gate MOSFETs now is another matter... I still have half
>a dozen or so 40673s I may yet use some day.
>
>Dale
>--
>It's a thankless job, but I've got a lot of Karma to burn off.
>Get a PicoKeyer: <http://www.hamgadgets.com>

Cecil
KD5NWA

Date: Thu, 19 Jun 2003 19:28:02 -0400
From: "Steven Weber" <kd1jv@moose.ncia.net>
To: <qrp-1@lehigh.edu>
Subject: [152573] Morse RTC
Message-ID: <002c01c336ba\$88538de0\$dfccfea9@turbotoo>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Gang,

The program for the Morse clock is slowly becoming
a monster.

This is turning out to be the Swiss Army knife of
keyers. So far it's got a 4 Memory Keyer, Real
Time Clock, (with date, alarm and relay drive
output), Morse output voltmeter (25v max, 100 mv
resolution, 1.1 meg input impedance) and Morse
output Frequency Counter, (hopefully with +/-
offsets).

Now, if I could make it decode a WWVB signal, it
would really do it all <g>

SWR and power meter? Nah, that's just plain
getting carried away! (But heck, I do still have
some spare A/D inputs...hummm)

{*light bulb over head*}

How about in the keyer "TUNE" mode, the side tone pitch is related to the refelected power? Tune for lowest pitch for best match? That would work and be reasonably easy to do, I think :-) Man, talk about feature creep!

Guess we'll have to do up a web page about it soon, so can discribe in detail how it works. It's got 5 multi-function push buttons, and you'll definatly need a crib sheet to remember it all. I know I do, and I'm writting the program!

Also need a catchy name.

MFK (mutli-function-keyer) ?

DIAM (Do it all keyer)?

MYAK (Man, Yet another keyer)?

ITJN (Is this just nuts)?

Oh, and with all the new functions and added parts, price will have to go up a little, maybe \$18.00, 20 tops.

72,
Steve, KD1JV
White mountains of New Hampshire
"melt Solder"
www.qsl.net/kd1jv/

Date: Thu, 19 Jun 2003 18:29:48 -0500
From: "David Bixler" <qrp@netins.net>
To: "'Low Power Amateur Radio Discussion'" <qrp-l@lehigh.edu>
Subject: [152574] RE: [radio] Whatever happened to all those PSK-80 Warblers?
Message-ID: <000001c336ba\$ad2fe500\$160520cf@XPComputer>
MIME-Version: 1.0
Content-Type: text/plain;
charset="us-ascii"
Content-Transfer-Encoding: quoted-printable

Hello Michael:

We have a very active PSK-31 session every Wednesday evening out here in the four states (AR, OK, KS, MO). The Wednesday Warble meets on 3580.5 KHz at 9 PM central time. Although summer conditions are not great on

80 meters, quite often KR1ST from South Carolina checks in. =20

We would be glad to have you join the roundtable!

72, Dave

David Bixler W0CH
Seneca, Missouri
W0CH QRP Web Site: <http://w0ch.com> or <http://w0ch.net>
Four State QRP Group: <http://4sqrp.com>

QRP: Little Radios, Big Fun!=20

-----Original Message-----

From: owner-qrp-1@Lehigh.EDU [mailto:owner-qrp-1@Lehigh.EDU] On Behalf
Of Michael Babineau
Sent: Thursday, June 19, 2003 6:05 PM
To: Low Power Amateur Radio Discussion
Subject: [radio] Whatever happened to all those PSK-80 Warblers?

I resurrected my NJQRP PSK-80 Warbler and finally put it into an=20
enclosure.

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Michael VE3WMB

P.S. Anyone else have low output on their rev C Warbler?
I'm getting about 1.5W and coincidentally seem to have low
RX audio as well ... wondering if somehow the two are related. I had to
resort to enabling the 20db Boost in the advanced tab on my windows
Recording Control panel and I am using the MIC input on the laptop.=20

Date: Thu, 19 Jun 2003 19:34:54 -0400
From: Ed Tanton <n4xy@earthlink.net>
To: kd1jv@moose.ncia.net,
 "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [152575] Re: Morse RTC
Message-ID: <5.2.1.1.2.20030619193202.00a04530@pop.earthlink.net>
Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"; format=flowed

Considering how often this sort of thing is intended for portable use, how about a separate output for a mosquito repeller? You could use it somewhat like the sidetone, just there most of the time, and somewhat(!) higher in frequency. [grin]

72/73 Ed Tanton N4XY <n4xy@earthlink.net>

Ed Tanton N4XY
189 Pioneer Trail
Marietta, GA 30068-3466

website: <http://www.n4xy.com>

All emails <IN> & <OUT> checked by
Norton AntiVirus with AutoProtect

LM: ARRL QCWA AMSAT & INDEXA;
SEDXC NCDXA GACW QRP-ARCI
OK-QRP QRP-L #758 K2 (FT) #00057

"He that gives up a little liberty to gain
temporary security will lose both and
deserve neither".
--Benjamin Franklin

"Suppose you were an idiot ...
and suppose you were a member of
Congress... but I repeat myself."
--Mark Twain

Date: Thu, 19 Jun 2003 19:40:42 -0400
From: "Lawrence Makoski" <Makos327@worldnet.att.net>
To: <kd1jv@moose.ncia.net>,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [152576] Re: Morse RTC
Message-ID: <002501c336bc\$3331d040\$e1b2590c@larrysahyqy001>
MIME-Version: 1.0
Content-Type: text/plain;

charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Steve,

My soldering iron is chomping at the bit!

73 de Larry W2LJ

W2LJ@arrl.net
<http://www.qsl.net/w2lj>

QRP ARCI #4488 NJQRP #47
FISTS #1469 QRP-L #778 FP #612
----- Original Message -----
From: "Steven Weber" <kd1jv@moose.ncia.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Thursday, June 19, 2003 7:28 PM
Subject: Morse RTC

> Gang,
>
> The program for the Morse clock is slowly becoming
> a monster.
>
> This is turning out to be the Swiss Army knife of
> keyers. So far it's got a 4 Memory Keyer, Real
> Time Clock, (with date, alarm and relay drive
> output), Morse output voltmeter (25v max, 100 mv
> resolution, 1.1 meg input impedance) and Morse
> output Frequency Counter, (hopefully with +/-
> offsets).
>
> Now, if I could make it decode a WWVB signal, it
> would really do it all <g>
>
> SWR and power meter? Nah, that's just plain
> getting carried away! (But heck, I do still have
> some spare A/D inputs...hummm)
>
> {*light bulb over head*}
>
> How about in the keyer "TUNE" mode, the side tone
> pitch is related to the refelected power? Tune for
> lowest pitch for best match? That would work and
> be reasonably easy to do, I think :-) Man, talk
> about feature creep!

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> Guess we'll have to do up a web page about it
> soon, so can discribe in detail how it works. It's
> got 5 multi-function push buttons, and you'll
> definatly need a crib sheet to remember it all. I
> know I do, and I'm writting the program!
>
> Also need a catchy name.
> MFK (mutli-function-keyer) ?
> DIAK (Do it all keyer)?
> MYAK (Man, Yet another keyer)?
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> Oh, and with all the new functions and added
> parts, price will have to go up a little, maybe
> \$18.00, 20 tops.
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> 72,
> Steve, KD1JV
> White mountains of New Hampshire
> "melt Solder"
> www.qsl.net/kd1jv/
>
>
>
>

Date: Thu, 19 Jun 2003 19:38:39 -0400
From: "Mike Yetsko" <myetsko@insydesw.com>
To: <n4xy@earthlink.net>,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [152577] Re: Morse RTC
Message-ID: <[001901c336bb\\$ea5aa860\\$0200a8c0@charter.net](mailto:001901c336bb$ea5aa860$0200a8c0@charter.net)>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hey, don't laugh. It would probably work!

That is, IF his speaker went that high...

Mike

> Considering how often this sort of thing is intended for portable use,
how
> about a separate output for a mosquito repeller? You could use it
somewhat
> like the sidetone, just there most of the time, and somewhat(!) higher
in
> frequency. [grin]

Date: Thu, 19 Jun 2003 18:47:51 -0500
From: KD5NWA <KD5NWA@cbayona.com>
To: kd1jv@moose.ncia.net,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [152578] Re: [ham] Morse RTC
Message-ID: <5.2.0.9.0.20030619184742.00a9fa08@127.0.0.1>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Actually a audible tone output that changes with SWR is not a bad idea,
many persons have asked for that in the past.

If you are visually impaired, or what the heck if you only have two hands,
sometimes it would be handy not to have to wrench your neck while tuning an
antenna and holding 7 items.

I have quite a bit of programming experience, and can testify to the fact
that if your're not careful the number of features you put in a project can
grow without bound unless, you put your foot down.

Life can be good, when you get to do the things you like, and still make a
living.

Have fun!!!

At 06:28 PM 6/19/2003, Steven Weber wrote:

>Gang,
>
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>a monster.
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>

>72,

>Steve, KD1JV

>White mountains of New Hampshire

>"melt Solder"

>www.qsl.net/kd1jv/

Cecil

KD5NWA

Date: Thu, 19 Jun 2003 16:44:11 -0700
From: "George Heron N2APB" <n2apb@erols.com>
To: "NJQRP" <njqrp@njqrp.org>, "QRP-L" <qrp-l@lehigh.edu>
Subject: [152579] AmQRP website - Reference page now online!
Message-ID: <004901c336bd\$e0319310\$440c650a@GHLTP4>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Thanks once again for the many guys pointing out the many broken links on the AmQRP website's REFERENCE page. I'm pleased to report that this is now all fixed up and should be the last of the initial major work in bringing the site to full operational status.

<http://www.amqrp.org/reference/reference.html>

Also, the NorCal Keyer Kit page has been enhanced with a sub-page containing "Tips from the Designer" ... Chuck Olson recently posted some handy operational and construction tips for his keyer chip being used in the NC Keyer, and we've posted it on the project page:

<http://www.amqrp.org/kits/NCKeyer/index.html>

Two more website projects-in-progress to be next completed are:

- 1) An automated way of determining HOMEBREWER subscription status; and
- 2) A link-refreshing clean-up of the NorCal website

Pretty soon we'll be cruisin' at 30,000 feet with the AmQRP site! Thanks for everyone's support and constructive feedback in the process.

73, George N2APB
n2apb@amsat.org

Date: Thu, 19 Jun 2003 20:13:17 -0400
From: "Steven Weber" <kd1jv@moose.ncia.net>
To: <kb9zuv@arrl.net>,
 "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [152580] Re: guidance on modifying the tenna dipper
Message-ID: <000901c336c0\$e55ffe00\$dfccfea9@turbotoo>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

>

> Now for the questions.
>
> This uses a resistance bridge to drive the led.
Would something like an
> opto isolator connected to a 555 load the
circuit too much?
>
The LED is in the collector of a transistor
amplifier. One could substitute an opto-coupler for
the LED, but a simpler approach would be to use a
photo resistor. Just couple the LED to the photo
resistor (inside some heat shrink tubing) and use
the photo resistor to change the tone of the 555
oscillator.

72,
Steve, KD1JV
White mountains of New Hampshire
"melt Solder"
www.qsl.net/kd1jv/

Date: Thu, 19 Jun 2003 19:17:22 -0500
From: "Stuart Rohre" <rohre@arlut.utexas.edu>
To: "DTX" <dtx@wood.tzo.com>, <qrp-1@Lehigh.EDU>
Subject: [152581] Stirling Engine demo kits inadequate for practical generator
Message-ID: <016d01c336c1\$57966d10\$4e100a0a@rohredt2000>

One of our bright young PhD's tried one of the Stirling Cycle engine demo
kits and hooked it up to a small motor to try to use it as a generator.
Unfortunately, the little kit that would spin itself did not have enough
extra power to turn the generator at a practical rate to make power.

There were supposedly some successful Stirling Engine generators produced in
Holland, but they quickly disappeared from the market, which makes one think
there must have also been a design problem with them. The Stirling Engine
seems to be another one of those inventions much like the 100 mile per
gallon carburetor. You just do not see them in use.

72,
Stuart K5KVH
There is a nice little book out on the history of the Stirling Cycle
concept. Wish someone would breakthrough and get them working.

Date: Thu, 19 Jun 2003 17:32:46 -0700
From: Bob Nielsen <nielsen@oz.net>
To: qrp-1@lehigh.edu
Subject: [152582] TICK-4 instructions wanted
Message-ID: <20030620003246.GA673@n7xy.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline

A few years ago I installed a TICK-4 keyer chip in my Red Hot NC20, but I seem to have misplaced the operating instructions. I would appreciate it if someone could scan a copy and email the image to me. Email to Embedded Research has gone unanswered.

Thanks & 73,
Bob, N7XY

Date: Thu, 19 Jun 2003 17:57:55 -0700
From: Bob Nielsen <nielsen@oz.net>
To: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>
Subject: [152583] Re: TICK-4 instructions wanted
Message-ID: <20030620005755.GA939@n7xy.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline

My this group is quick. I have the documentation thanks to Dave, ab9ca/4.

Bob

On Thu, Jun 19, 2003 at 05:32:46PM -0700, Bob Nielsen wrote:
> A few years ago I installed a TICK-4 keyer chip in my Red Hot NC20, but
> I seem to have misplaced the operating instructions. I would
> appreciate it if someone could scan a copy and email the image to me.
> Email to Embedded Research has gone unanswered.
>
> Thanks & 73,
> Bob, N7XY
>

--

Bob Nielsen, N7XY
Bainbridge Island, WA
IOTA NA-065, USI WA-028S

n7xy@n7xy.net
<http://www.n7xy.net>

Date: Thu, 19 Jun 2003 20:52:09 -0500
From: KD5NWA <KD5NWA@cbayona.com>
To: k2zn@rochester.rr.com,
 "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [152584] Re: [ham] WTB: Ten Tec 217 CW Filter
Message-ID: <5.2.0.9.0.20030619205118.00a884b8@127.0.0.1>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Well, are you sure?

Are you selling or are you buying?

At 06:49 AM 6/19/2003, Al Scanandoah wrote:

>Hi
>
>Subject states it all.
>
>72/73 - Al, K2ZN

Cecil
KD5NWA

Date: Thu, 19 Jun 2003 20:56:45 -0500
From: KD5NWA <KD5NWA@cbayona.com>
To: n5ed@juno.com,
 "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [152585] Re: [ham] Internet Problems
Message-ID: <5.2.0.9.0.20030619205504.00a88600@127.0.0.1>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Make sure you enter in computer A & B the DNS and WIN addresses of your ISP provider, so computer A or B know who to ask so it can find other web sites.

At 02:23 AM 6/19/2003, Edgar R Guillot wrote:

>My computer connects to the Internet through another computer. Both are

>running 98SE. The network is fine, but I can only receive Diz's Parts
>and Kits, and MSN web pages that I know of. I cannot get Juno or
>Microsoft. The connected computer (gateway) can gets everything. Help!
>N5Ed.

>

>

>-----
>The best thing to hit the internet in years - Juno SpeedBand!
>Surf the web up to FIVE TIMES FASTER!
>Only \$14.95/ month - visit www.juno.com to sign up today!

Cecil
KD5NWA

Date: Thu, 19 Jun 2003 20:57:27 -0500
From: "Larry Sorrow" <ke4itn@corrcomm.net>
To: <qrp-1@lehigh.edu>
Subject: [152586] RE: QRP windmill
Message-ID: <001301c336cf\$4e06bb20\$e42f1442@ke4itn>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

>Re:In either case, the weakest link is what to use for a 12V 1Amp
generator/alternator? Something fairly small and light but not a toy.

What about a riding lawn mower generator?
I read somewhere about a guy that had plans to build a light weight
generator from a string trimmer engine and a lawn mower generator.
73 Tom KE4ITN

Date: Thu, 19 Jun 2003 22:16:07 -0400
From: JD Delancy <W1JD@drix.net>
To: qrp-1@Lehigh.EDU
Message-ID: <3EF26E67.534F71D9@drix.net>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii
Content-transfer-encoding: 7BIT

Who has or how do I find the command set to put qrp-1 into a digest mode instead
of

individual mailings?

Date: Thu, 19 Jun 2003 20:17:20 -0600
From: "Jerry Felts" <nr5a@rap.midco.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [152588] BLT does 6m!
Message-ID: <004701c336d2\$14717dc0\$3865dc18@jerryhc0zfh19d>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Was outside in the back yard tonite testing my newly built BLT tuner and FT-817. Antenna was a 20 inverted vee made out of a 50ft piece of cheap tv twinlead supported by my Black Widow fishin pole. Once I got everything hooked up I always check 6m first, actually I was planning on working 20m cw. 6M was wide open, would the BLT tune the 20m Vee on 6m?? Had to try, hmm neat 1:1 SWR. So I jumped in with both feet working several stations on 6m. Never thought the BLT and 20m vee would work there. Cool

Jerry - NR5A - South Dakota

Date: Thu, 19 Jun 2003 19:23:54 -0700 (PDT)
From: KC8WBK <cruisenewsnet@yahoo.com>
To: qrp-1@Lehigh.EDU
Subject: [152589] Wooden alternator
Message-ID: <20030620022354.83952.qmail@web20908.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

This medievael looking contraption can be made with magnet wire, magnets, a couple of bearings and plywood:

<http://www.otherpower.com/pmg2.html>

Also check out the wind power links on the site.

<-->

Date: Wed, 18 Jun 2003 12:11:13 -0400
From: "Steven Weber" <kd1jv@moose.ncia.net>
I have a little DC generator which puts out 4.5

volts/ 100 rpm. Doesn't have a current rating marked on it, but should be enough to keep a battery charged. I've always wanted to put it to use in a wind mill.

<-->

=====

KC8WBK

<http://www.qsl.net/kc8wbk>

Do you Yahoo!?

SBC Yahoo! DSL - Now only \$29.95 per month!

<http://sbc.yahoo.com>

Date: Thu, 19 Jun 2003 22:41:02 -0400 (EDT)

From: <n2go@arrl.net>

To: <qrp-1@Lehigh.EDU>

Subject: [152590] wtb ldg rt11

Message-ID: <Pine.LNX.4.33.0306192239540.8976-100000@valhalla.v>

MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

I am looking for a RT-11 tuner. Cash or trade for my new unused Z-11 ldg.

73,

Jim n2go

Date: Thu, 19 Jun 2003 20:47:28 -0600

From: Tim Groat <tcgroat@earthlink.net>

To: qrp-1@lehigh.edu

Subject: [152591] Re: QRP windmill

Message-ID: <5.1.1.6.2.20030619203619.00a2dbb0@mail.earthlink.net>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"; format=flowed

Just thinking here...why not a toy? What do those bicycle headlight generators put out? 6V, maybe? The current is sufficient for a headlight and tail light, maybe a couple of watts? The drag doesn't seem that bad on them;, the bike isn't that much harder to pedal with the lights on. It

seems that a tire moving past at 10 or 15 MPH gets them up to full brightness. Keep your eyes open at the yard sales...there might be a usable 50 cent power generators in with the other stuff.

72,

--Tim (KR0U)

>"DTX" <dtx@wood.tzo.com>:

>

>In either case, the weakest link is what to use for a 12V 1Amp

>generator/alternator? Something fairly small and light but not a toy.

>Anyone have any ideas? I can see using a RS PM motor for proof of concept

>but what if it works<G>?

>

>Gary WA6DTX

Date: Thu, 19 Jun 2003 22:28:15 -0500

From: "Tim, N9PUZ" <n9puz@arrl.net>

To: <qrp-l@Lehigh.EDU>

Subject: [152592] Re: Morse RTC

Message-ID: <2003619222950.693550@EOS>

Mime-Version: 1.0

Content-Type: text/plain; charset="iso-8859-1"

Content-Transfer-Encoding: quoted-printable

On Thu, 19 Jun 2003 19:28:02 -0400, Steven Weber wrote:

>How about in the keyer "TUNE" mode, the side tone pitch is=
related

>to the refelected power? Tune for lowest pitch for best match?=
That

>would work and be reasonably easy to do, I think :-) Man, talk=
about

>feature creep!

No Internet connection?

>Guess we'll have to do up a web page about it soon, so can=
discribe

>in detail how it works. It's got 5 multi-function push buttons,=
and

>you'll definatly need a crib sheet to remember it all. I know I=
do,

>and I'm writting the program!

I can see it now. Keyer/Clock built into a tiny enclosure but the= manual ships on a CD-ROM!

>Also need a catchy name. MFK (mutli-function-keyer) ? DIAK (Do= it
>all keyer)? MYAK (Man, Yet another keyer)? ITJN (Is this= just
>nuts)?

NJAK - Not Just Another Keyer

Tim, N9PUZ

Date: Thu, 19 Jun 2003 22:51:29 -0500
From: Gary Lee <kb9zuv@arrl.net>
To: qrp-l@lehigh.edu
Subject: [152593] morse rtc clock etc.
Message-ID: <5.2.0.9.2.20030619225037.00a695f0@pop.ameritech.yahoo.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Let's name it "TINYF-KEYER" This is not your father's keyer.

Date: Fri, 20 Jun 2003 00:20:15 -0500 (CDT)
From: Dale Botkin <dale@botkin.org>
To: QRP list <qrp-l@Lehigh.EDU>
Subject: [152594] FS/SWAP/WTB: Paddles
Message-ID: <Pine.LNX.4.33.0306200008490.2266-100000@madmax.botkin.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Looking for either or both:

Small, lightweight portable paddles for field use - Schurr, Whiterook, Palm, G4ZPY, etc. I don't want to lug my Vibrokeyer out camping again. Don't need or want a built-in electronic keyer, I prefer my own, thanks.

Also looking for a nice, solid dual-lever paperweight for the shack. I have a Vibrokeyer and a Brass Racer, and while both are nice I want one with a more solid/precise feel, one with bearings. Prefer Schurr, Kent Twin, Begali, etc. Will consider cash and/or trades.

I have the abovementioned Brass Racer and a Vibrokeyer with the Vibroplex clear Plexiglass cover, foam-lined carry case and a non-skid rubber pad for sale or swap. Both are in excellent condition with no missing pieces. The Vibrokeyer is SN 49888, and the Brass Racer is SN 08125. The BR has been recently cleaned up.

73,

Dale - N0XAS

--

It's a thankless job, but I've got a lot of Karma to burn off.
Get a PicoKeyer: <http://www.hamgadgets.com>

Date: Fri, 20 Jun 2003 01:32:02 -0400
From: "McCloskey, Anthony" <AMcCloskey@mail.intracorp.com>
To: "'qrp-1@lehigh.edu'" <qrp-1@lehigh.edu>
Subject: [152595] Guidance on modifying the tenna dipper
Message-ID: <A7DE8B013185D6119385000255AC1D7E04F4DDA1@CHSEXU02>
MIME-Version: 1.0
Content-Type: text/plain;
 charset=iso-8859-1
Content-Transfer-Encoding: 7bit

Hi Gary:

I have used a photocell connected in the base circuit of a 1 transistor oscillator for these kind of things. If you are interested let me know and I will give you a verbal schematic.

Tony McCloskey, Wa3Cao

Date: Thu, 19 Jun 2003 22:28:51 -0700
From: "Bill Linn" <blinn@smgazette.com>
To: <kd1jv@moose.ncia.net>,
 "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [152596] Re: Morse RTC
Message-ID: <008601c336ec\$d62a8b40\$a970ef42@wa7tqk>
MIME-Version: 1.0
Content-Type: text/plain;

charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

RTC/OPUT (Other ports used too!)

I'm anxious to see how this one turns out. Like someone else said, I'm keeping the iron hot!

Bill - WA7TQK

[SMGazette.com E-mail is scanned for viruses by Declude Virus]
[Visit us on the web at SMGazette.com]

Date: Fri, 20 Jun 2003 06:14:09 +0000
From: n1ix@att.net
To: qrp-1@lehigh.edu (qrp-1)
Subject: [152597] FS: IC-703
Message-ID: <200306200614.h5K6EGws026417@rain.CC.Lehigh.EDU>

FS like new IC-703 with Inrad 400HZ CW filter installed. Original packaging, manual, cord, plugs.
\$625 plus shipping from 03858

Dave N1IX

Date: Fri, 20 Jun 2003 05:38:44 -0500
From: Chuck Carpenter <w5usj@9plus.net>
To: qrp-1@lehigh.edu
Subject: [152598] 6mtr Calling Freqs
Message-ID: <3.0.2.32.20030620053844.008406f0@mail.9plus.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

QRP VHFers,

Seeing the reference items on the AmQRP site and the QRP calling freq table reminded me. The QRP calling freq's listed for the 6m US are not too useful.

50.06 for CW -- right in the middle of the beacon sub band. It's legal to work CW there but you aren't likely to get any replies to CQs. More likely

you'll be interfering with someones beacon. The most often used CW sub band these days is from about 50.090 to 50.1. (I've worked stations in Europe as low as 50.070 but that's rare.) During strong opening and contests CW ops will be anywhere in the most often used segments of the band. I'd suggest 50.096 as a QRP CW calling spot.

50.885 for SSB -- I've never heard anyone work that high in the band even during strong openings and contests. The European freq of 50.285 would be better but even that is a little high most of the time. The 6-Club uses 50.175 maybe something like 50.166 or 50.186 would be a useful QRP watering hole.

Similar problem on 2 meters, BTW. I'm aware that 144.060 for CW is a problem for the weak signal ops. Someone who operates the band and knows the present usage would need to comment here. The 144.285 freq seems a little high to me for SSB too.

Chuck Carpenter, W5USJ, Point, Rains Co., TX - EM22cv, NETXQRP #1
QRP-ARCI #5422, QRP-L #1306, QRPp-I #115, ARS #1280, SOC #57
Zombie #759, COG #11, 6 Club #201, FP #601 <http://www.netxqrp.org>

Date: Fri, 20 Jun 2003 06:37:15 -0400
From: Tom Bowman <wa3rey@comcast.net>
To: qrp-l@Lehigh.EDU
Subject: [152599] Source for VN 10 mosfets?
Message-ID: <000501c33717\$eb073740\$08415344@TOMS>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

Hi,

I'm trying to find a place where I can buy VN 10 mosfets used in the Wee Willy DSB transceiver here <http://www.qrp.pops.net/willy.htm>

Anyone buy these recently?

Tom, WA3REY

Tom Bowman, WA3REY, Mount Gretna, PA USA
(All mail scanned by Norton 2002)

Date: Fri, 20 Jun 2003 11:53:20 +0100
From: "Leon Heller" <leon_heller@hotmail.com>
To: "Low Power" <qrp-1@Lehigh.EDU>
Subject: [152600] Miniature loudspeakers
Message-ID: <Law15-DAV49IHavnCJ100047915@hotmail.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I've just received some nice little PCB-mounted loudspeakers I'd ordered from Rapid Electronics here in the UK (order code is 35-3540 and price is 44p). They are 23 mm diameter with an 8 ohm coil. Max. input power is 0.15W. They sound much nicer than a piezo transducer when fed with a square wave, presumably because the limited frequency response makes the output more sinusoidal. They are probably intended for PC motherboards.

I'll try one out with a TDA7052 AF amp and see how it behaves with speech signals. It sounds OK with tones.

73, Leon

--

Leon Heller, G1HSM
leon_heller@hotmail.com
http://www.geocities.com/leon_heller

Date: Fri, 20 Jun 2003 07:54:13 -0400
From: Alex <kr1st@amsat.org>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [152601] Re: Whatever happened to all those PSK-80 Warblers?
Message-ID: <3EF2F5E5.CB13046C@amsat.org>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii
Content-transfer-encoding: 7bit

Hi Michael,

Indeed it's often slim pickens on 80 meter PSK. I often check 80 meters for activity but usually my CQs go nowhere. Almost always it's before 10pm EST though when I'm on the radio since I get up rather early in the morning.

There's a good PSK net on every Wednesday at 10pm EST by the friendly 4SQRP crowd. I think a lot of folks on that net use Warblers.

It's rather unfortunate that a frequency so close to the W1AW operation

was chosen for a (de facto) QRP mode PSK. W1AW messes with the AGC of my radio so bad at times that it can make perfectly good PSK almost unreadable because of pumping of the AGC. Most days I can use the IF shift to drop W1AW outside the IF passband, but often that does not seem sufficient, especially when there's a strong CW signal on the opposite side of the desired signal. Maybe I just need to get that filter for my radio and figure out how to turn off the AGC.

I wonder what W1AW/the ARRL considers to be the minimal power necessary for their broadcasts.

73,
--Alex KR1ST

Michael Babineau wrote:

> At least I have had W1AW at 3.5815 to keep me company!
> Where did everybody go? Anybody in the East still doing PSK-31 on 80M?

Date: Fri, 20 Jun 2003 08:20:40 -0400
From: "John J. McDonough" <wb8rcr@arrl.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Cc: <michael.babineau@sympatico.ca>
Subject: [152602] Re: Whatever happened to all those PSK-80 Warblers?
Message-ID: <003a01c33726\$5f073a60\$010044c0@chartermi.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

----- Original Message -----

From: "Michael Babineau" <michael.babineau@sympatico.ca>
Subject: Whatever happened to all those PSK-80 Warblers?

> Where did everybody go? Anybody in the East still doing PSK-31 on 80M?

The summer is a bad time for 80 anyway, but the absorption seems to have been especially high for the last few nights. While I don't do PSK, I do check into 80 and 75 meter nets almost every evening (QRO - I know, bad, bad). Even with 100 watts it's been very difficult making any trip that isn't line of sight for the past week or so. Night before last the noise level was extremely low here (well, I actually went outside of town to escape the city noise), but kilowatt stations a hundred miles away were barely audible. Hundred watt stations that weren't within sight of my antenna just weren't there.

This solar stuff seems to have a few cycles with plenty of random fluctuations. Besides the 11 year cycle, there is the obvious earth-induced annual cycle, and a solar rotational cycle of a little less than a month. Tomorrow is the summer solstice, and it should be the worst of it. Conditions ought to improve slowly after this weekend, but the shorter cycle is going to make it tough half the time until we get nearer the winter. The good news is that, as we get deeper into the 11 year trough, the same effect that makes 20 poorer will make 80 better, so don't toss that Warbler for another 4 or 5 years, anyway.

72/73 de WB8RCR <http://www.qsl.net/wb8rcr>
didileydadidah QRP-L #1446 Code Warriors #35

Date: Fri, 20 Jun 2003 08:41:19 -0400
From: Alex <kr1st@amsat.org>
To: tcgroat@earthlink.net
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [152603] Re: QRP windmill
Message-ID: <3EF300EF.FBC1885E@amsat.org>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii
Content-transfer-encoding: 7bit

Tim Groat wrote:

>

> Just thinking here...why not a toy? What do those bicycle headlight
> generators put out? 6V, maybe?

I built two windmills using once bicycle generators when I was a few years younger (14 or 15 I think). If the US ones are the same as what we use in the Netherlands, then they should be able to deliver about 1 Amp. Front and back light on a bicycle each take about 1/2 an Amp at 6 Volts.

I never did anything serious with it as it seemed that the efficiency was very low. My first windmill I built used a wheel that had the generator built in and the vanes were made from a PVC pipe that were put on the wheel at an angle. I used an axle and bearings from a second wheel to mount the windmill on so that it could rotate freely in the horizontal plane in the wind. The tail of the windmill, to steer the windmill into the wind, was also made from PVC pipe. Only thing I powered with it was a light on the pole the windmill was mounted on.

> The drag doesn't seem that bad on
> them;, the bike isn't that much harder to pedal with the lights on. It

> seems that a tire moving past at 10 or 15 MPH gets them up to full
> brightness.

Another one I built was smaller one using one of those small generators.
I put vanes directly onto the axle of that generator. It didn't work
well at all if I remember correctly. The problem with both windmills was
that you need quite a bit of energy (wind) to even get them started.

I think the trick with using wind power successfully is that you need to
build a system that delivers power even at very low winds. I've seen
some very impressive windmills that would generate a lot of power (kWs)
with only the slightest wind. I think the most efficient windmills use
only one vane, although "wing" seems to be a more appropriate word. A
lot of the commercial ones need to be rotated out of the wind, or put
the brakes on so to speak, when the wind speed reaches just a few miles
per hour.

Thanks for bringing it up.

73,
--Alex KR1ST

Date: Fri, 20 Jun 2003 07:57:58 -0500
From: "Doc - W5TB" <w5tb@arrl.net>
To: <k7qo@commspeed.net>,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [152604] Re: Update on the Walgreens clock
Message-ID: <00f001c3372b\$939d8040\$0400a8c0@attbi.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

FYI - the model on sale at my Walgreen's does NOT adapt to UTC - US time =
zones only above the UPC code it's labeled ITEM 701071.

72, 73, oo T.E. 'Doc' Drake, W5TB
Arlington, Texas
FISTS # 5365 QRP/ARCI # 3532 ARRL Life Member K1 #181 K2#1617=20
----- Original Message -----20
From: "Chuck Adams" <k7qo@commspeed.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Wednesday, June 18, 2003 10:05 AM
Subject: Update on the Walgreens clock

>=20
> Model number for the clock is SkyScan Model 31981
> and it does any time zone (you can set it for UTC) and
> it has 24hr display also if you want. Neat stuff.
>=20
> But, for some reason it wants -1 to get the correct UTC
> time. Will have to wait for it to reset to see if it corrects
> itself.
>=20
> Sorry for the missed info in the first posting.
>=20
>=20
>=20
> Chuck Adams K7QO k7qo@commspeed.net
> http://www.qsl.net/k7qo CP-60=20
>

Date: Fri, 20 Jun 2003 09:47:13 -0400
From: steve.lawrence@itwfeg.com
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Cc: kd1jv@moose.ncia.net
Subject: [152605] Re: Morse RTC
Message-ID: <0F8E7702B2.AC2EF3F6-0N85256D4B.004AA9EC-85256D4B.004BBBD9@itwfeg.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"

Ahhhh.... the beauty of software! Engineering without a wire or bolt....
ROM: a blank canvas, waiting to be painted with a beautiful scene
described logically in assembler, C++, or...

So, how 'bout a zero-beat indicator? Match side tone with tone of
received CW signal?

Steve
aa8af

Date: Fri, 20 Jun 2003 09:54:02 -0400
From: "Hare,Ed, W1RFI" <w1rfi@arrl.org>
To: <qrp-l@lehigh.edu>, <fpqrp-l@fpqrp.com>
Subject: [152606] ARRL article on Broadband over Power Line available on the ARRL
page
Message-ID: <721D3436A7C2B344A301FD4A413C71A9016F3244@kosh.arrlhq.org>
content-class: urn:content-classes:message

MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

Ladies and gentlemen:

ARRL has just posted an article that explains the issues on the FCC =
Notice of Inquiry on Broadband over Power Line technology. As a regular =
poster on this forum, I urge you all to read the article and then file =
comemnts with the FCC.=20

See:

<http://www.arrl.org/news/features/2003/06/19/2/?nc=3D1=20>

for the overview article. More technical details about BPL are found =
at:

<http://www.arrl.org/tis/info/HTML/plc/files/C63NovPLC.pdf=20>

A very comprehensive resource page has been posted at:

<http://www.arrl.org/tis/info/HTML/plc>

73, Ed Hare, W1RFI

Date: Fri, 20 Jun 2003 07:10:34 -0700 (PDT)
From: Lloyd Lachow <llachow@yahoo.com>
To: a low-energy group <qrp-l@lehigh.edu>
Subject: [152607] Anybody doing QRP FD in MD?
Message-ID: <20030620141034.82367.qmail@web41006.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

I'd like to do a QRP field day with others...it
would just be too lonely by myself. If nobody's doing
it around here (Baltimore, MD area,) I'll probably
just go and do some CW ops for my local club's QRO
(ugh) station. Thanks!

=====

73, 72 es oo, Lloyd, K3ESE - Reisterstown, Maryland
multiPIG+ #14 - K1 # 00379 - 20/40M Rock-Mites
Hunk o' Wahr - Begali Magnetic Classic Paddles
ARRL - ARS #1301 - QRParci #11147 - FISTS #8774

FPQRP #476 - QRP-L #2415 - SOC #530
Fun = Skill / Power !

Do you Yahoo!?
SBC Yahoo! DSL - Now only \$29.95 per month!
<http://sbc.yahoo.com>

Date: Fri, 20 Jun 2003 10:16:26 -0400
From: "Noyce, Bill" <william.noyce@hp.com>
To: <qrp-l@Lehigh.EDU>
Subject: [152608] Re: Source for VN 10 mosfets?
Message-ID:
<6D6463F31027B14FB3B1FB094F2C744703377DCD@tayexc17.americas.cpqcorp.net>
content-class: urn:content-classes:message
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

I got some a few months ago for \$1 each from Dan's Small
Parts & Kits. <<http://www.danssmallpartsandkits.net>> He
currently has them listed as "VN10K T092 \$1.50 each".
The ones I got were VN10KM, the one with the small metal
tab on top of the plastic case -- not sure if that's what
he's selling now.

-- Bill, AB1AV

Date: Fri, 20 Jun 2003 10:41:13 -0400
From: Alex <kr1st@amsat.org>
To: w1rfi@arrl.org, hq@arrl.org
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [152609] Re: ARRL article on Broadband over Power Line available on the
ARRL
page
Message-ID: <3EF31D09.CCF256AE@amsat.org>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii
Content-transfer-encoding: 7bit

May I suggest to make the article you refer to, an "Attention All
Amateurs" feature?

The article is already being snowed under, so to speak, on the main page

by other articles. I think the urgency, which is stressed by the article and the request for money, and the fact that this issue has a deadline would warrant a more prominent place than a FAQ on how to use 5 frequencies in the 60 meter band. The FAQ may become obsolete soon if the BPL industry gets its way and interference issues are not addressed appropriately. (especially since 60 meters has a power limitation for us hams)

Thanks and 73,
--Alex KR1ST

"Hare,Ed, W1RFI" wrote:

>
> Ladies and gentlemen:
>
> ARRL has just posted an article that explains the issues on the FCC Notice of Inquiry on Broadband over Power Line technology. As a regular poster on this forum, I urge you all to read the article and then file comments with the FCC.
>
> See:
>
> <http://www.arrl.org/news/features/2003/06/19/2/?nc=1>
>
> for the overview article. More technical details about BPL are found at:
>
> <http://www.arrl.org/tis/info/HTML/plc/files/C63NovPLC.pdf>
>
> A very comprehensive resource page has been posted at:
>
> <http://www.arrl.org/tis/info/HTML/plc>
>
> 73, Ed Hare, W1RFI

Date: Fri, 20 Jun 2003 09:42:57 -0500
From: Ken Hopper N9VV <n9vv@wideopenwest.com>
To: QRP-L <qrp-l@Lehigh.EDU>
Subject: [152610] [Q] anyone QRP FD in Chicago area?
Message-ID: <3EF31D71.8050200@wideopenwest.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit

Hi,
I am interested in finding any club or group who is doing
FD QRP this year - in the Western suburbs of Chicago?

pse email direct n9vv at arrl dot net
or n9vv at wideopenwest dot com
TU de ken n9vv

Date: Fri, 20 Jun 2003 09:53:26 -0500
From: James Crofutt <crokc@comcast.net>
To: qrp-l@Lehigh.EDU
Subject: [152611] CW Paddle
Message-ID: <012f01c3373b\$b4e88000\$6401a8c0@Grumpy>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

Hi, looking for another American Morse Porta-Paddle, with the optional base.
Still trying to find a nice
OHR W-2 wattmeter and the little Emtech ZM-2 antenna tuner as well. Need
all these items for Field Day and time is running out. Thanks to all who
responded on the OHR 500, still getting emails , but I have found one.
73 NOXE (Jim)

Date: Fri, 20 Jun 2003 11:00:17 -0400
From: "Carl Heidenblad" <carlh@adamslibrary.org>
To: <kr1st@amsat.org>,
 "'Low Power Amateur Radio Discussion'" <qrp-l@Lehigh.EDU>
Subject: [152612] RE: ARRL article on Broadband over Power Line available on the
ARRL page
Message-ID: <000501c3373c\$a9c7e0c0\$4200040a@adamslibrary.org>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="us-ascii"
Content-Transfer-Encoding: 7bit

Alex: I absolutely agree. BPL is a huge threat to Amateur Radio. The
information Ed, W1RFI has put together on the ARRL page is very
informative, and very, very disturbing. I too would like to see it
featured more prominently. Well, back to lurk mode :)

Carl N1CUU

-----Original Message-----

From: owner-qrp-l@Lehigh.EDU [mailto:owner-qrp-l@Lehigh.EDU] On Behalf
Of Alex

Sent: Friday, June 20, 2003 10:41 AM
To: Low Power Amateur Radio Discussion
Subject: Re: ARRL article on Broadband over Power Line available on the ARRL page

May I suggest to make the article you refer to, an "Attention All Amateurs" feature?

The article is already being snowed under, so to speak, on the main page by other articles. I think the urgency, which is stressed by the article and the request for money, and the fact that this issue has a deadline would warrant a more prominent place than a FAQ on how to use 5 frequencies in the 60 meter band. The FAQ may become obsolete soon if the BPL industry gets its way and interference issues are not addressed appropriately. (especially since 60 meters has a power limitation for us hams)

Thanks and 73,
--Alex KR1ST

"Hare,Ed, W1RFI" wrote:

>
> Ladies and gentlemen:
>
> ARRL has just posted an article that explains the issues on the FCC Notice of Inquiry on Broadband over Power Line technology. As a regular poster on this forum, I urge you all to read the article and then file comemnts with the FCC.
>
> See:
>
> <http://www.arrl.org/news/features/2003/06/19/2/?nc=1>
>
> for the overview article. More technical details about BPL are found at:
>
> <http://www.arrl.org/tis/info/HTML/plc/files/C63NovPLC.pdf>
>
> A very comprehensive resource page has been posted at:
>
> <http://www.arrl.org/tis/info/HTML/plc>
>
> 73, Ed Hare, W1RFI

Date: Fri, 20 Jun 2003 11:09:48 -0400
From: "Hare,Ed, W1RFI" <w1rfi@arrl.org>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [152613] RE: ARRL article on Broadband over Power Line available on the ARRL page
Message-ID: <721D3436A7C2B344A301FD4A413C71A9016F324F@kosh.arrlhq.org>
content-class: urn:content-classes:message
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

It's done. We now feature BPL and the 60 M stuff in the Attention All =
Amateurs box on the page. If your browser has cached the page, do a =
refresh.=20

And it is NOT a W1RFI page, it is an ARRL page! My role in all of that =
has been technical, with the involvement of nearly a dozen other staff. =
My job at this point is to do the calculations and studies necessary for =
decisions to be made about the content of the inevitable ARRL filing on =
the subject.

73,=20
Ed Hare, W1RFI
ARRL Lab
225 Main St
Newington, CT 06111
Tel: 860-594-0318
Internet: w1rfi@arrl.org
Web: <http://www.arrl.org/tis>

> -----Original Message-----
> From: Carl Heidenblad [mailto:carlh@adamslibrary.org]
> Sent: Friday, June 20, 2003 11:00 AM
> To: Low Power Amateur Radio Discussion
> Subject: RE: ARRL article on Broadband over Power Line=20
> available on the
> ARRL page
>=20
>=20
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> Radio. The
> information Ed, W1RFI has put together on the ARRL page is very
> informative, and very, very disturbing. I too would like to see it
> featured more prominently. Well, back to lurk mode :)
>=20

> Carl N1CUU
>=20
> -----Original Message-----
> From: owner-qrp-l@Lehigh.EDU [mailto:owner-qrp-l@Lehigh.EDU] On Behalf
> Of Alex
> Sent: Friday, June 20, 2003 10:41 AM
> To: Low Power Amateur Radio Discussion
> Subject: Re: ARRL article on Broadband over Power Line=20
> available on the
> ARRL page
>=20
> May I suggest to make the article you refer to, an "Attention All
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> The article is already being snowed under, so to speak, on=20
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> hams)
>=20
> Thanks and 73,
> --Alex KR1ST
>=20
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> >=20
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> As a regular
> poster on this forum, I urge you all to read the article and then file
> comemnts with the FCC.
> >=20
> > See:
> >=20
> > <http://www.arrl.org/news/features/2003/06/19/2/?nc=3D1>
> >=20
> > for the overview article. More technical details about BPL=20
> are found
> at:

> >=20
> > <http://www.arrl.org/tis/info/HTML/plc/files/C63NovPLC.pdf>
> >=20
> > A very comprehensive resource page has been posted at:
> >=20
> > <http://www.arrl.org/tis/info/HTML/plc>
> >=20
> > 73, Ed Hare, W1RFI
>=20
>=20

Date: Fri, 20 Jun 2003 15:20:54 +0100
From: The Wheelers <rains@digisys.net>
To: qrp-1@Lehigh.EDU
Subject: [152614] OT: SuSe 8.2
Message-ID: <3EF31846.9020701@digisys.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit

Two weeks vacation was wonderful, time now to read the digests and pay my dues.

I received the disks from Chuck Adams, now need direct e-mail of the next person I owe copies to. Amazing how much spam you get over a two week period.

Back to the digests.

Vern, N7SPK

Date: Fri, 20 Jun 2003 11:19:46 -0400
From: "Noyce, Bill" <william.noyce@hp.com>
To: <qrp-1@Lehigh.EDU>
Subject: [152615] Re: ARRL article on Broadband over Power Line available on the ARRL page
Message-ID:
<6D6463F31027B14FB3B1FB094F2C74470347AFAB@tayexc17.americas.cpqcorp.net>
content-class: urn:content-classes:message
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Content-Transfer-Encoding: quoted-printable

Ed, thanks for the pointers, especially the technical one
<<http://www.arrl.org/tis/info/HTML/plc/files/C63NovPLC.pdf>>

It raised a few questions in my mind.

An excerpt from the Part 15 rules (apparently) says:

"...when performing measurements at a closer distance than specified, the results shall be extrapolated to the specified distance by either ... or by using the square of an inverse linear distance extrapolation factor (40 dB/decade)."

I'm having trouble seeing how "the square of an inverse linear" factor is equivalent to 40dB. I would expect an inverse linear factor to be 10dB/decade, and its square to be 20dB. (And that appears to match experimental results.) Maybe I'm just confusing field strength with power here... For a normal antenna, don't we expect field strength to decrease linearly with distance, and power as the square of the distance? For a transmission line, I think we expect field strength to decrease with the square of the distance...

I was also uncertain whether you can simply add together the 100,000 radiators within a station's hearing, by adding 50dB to the power of an individual radiator. If they're uncorrelated, you would need to add them in a root-mean-square way, so that 100,000 radiators would translate to +25dB. But maybe I'm confused again here -- the RMS addition applies to field strength, and power is its square, so 50dB would be right.

I'd like to be sure I understand these issues before sending a comment. In my comment, I plan to make two points: first, that I operate QRP (typically 2 watts) on HF traffic nets, and this allows me to communicate all over New England using very low current, supplied by a small battery for a day or two, or by a small solar panel indefinitely, so medium-distance emergency communication can be carried anywhere by backpack, bicycle, or canoe. This is only possible because other stations can hear my low-power signal, which allows my battery to be portable. The second point would be that, if a BPL system is causing interference, it will likely be hard for amateurs to identify that fact. The broadband / spread spectrum signal will most likely sound a lot like atmospheric noise, and will not be localized either in frequency or (point) location. Even if we were confident that power companies would correct interference once it's identified, how do we expect to identify it?

-- Bill, AB1AV

Date: Fri, 20 Jun 2003 08:22:42 -0700
From: "Ian Wilson" <ianmwilson@earthlink.net>
To: <kd1jv@moose.ncia.net>,
 "'Low Power Amateur Radio Discussion'" <qrp-l@Lehigh.EDU>
Subject: [152616] RE: Morse RTC
Message-ID: <000d01c3373f\$d00b88b0\$1002a8c0@TrabucoIan>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="us-ascii"
Content-Transfer-Encoding: 7bit

How about: CW-Time . .

de ian, k3imw/6

Date: Fri, 20 Jun 2003 09:37:02 -0600 (CST)
From: Bruce Rattray <rattray@gpfn.sk.ca>
To: QRP-Canada <listproc@neale.gpfn.sk.ca>,
 Low Power Group <qrp-l@LeHigh.EDU>
Subject: [152617] Fox - Summer Fox Hunt Teams Results.
Message-ID: <Pine.LNX.4.33.0306200932230.29354-100000@neale.gpfn.sk.ca>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hunt #5 - K0FRP -

The Cajun Thunder - 17

Wayne - K5E0A ★
Vern - AA50
Wayne - N5YFC ★
Jim - N5IB
Mike - VA6MJT

The Cheeseheads - 0

Jerry - N9AW
Rick - NK9G
Jim - WA9TZE
Gary - W9XT
and one more.

The NE-TX Tornados - 20

Lew - N5ZE ★
Joe - KK5NA ★
Wayne - W5KDJ ★

Doc - W5TB
George - W5YR *

...any corrections, please e-mail me direct...72 - Bruce (VE5RC+VE5QRP)

Date: Fri, 20 Jun 2003 09:39:09 -0600 (CST)
From: Bruce Rattray <rattray@gpfn.sk.ca>
To: QRP-Canada <qrp-canada@neale.gpfn.sk.ca>,
Low Power Group <qrp-1@LeHigh.EDU>
Subject: [152618] Fox - Summer Fox Hunt Teams Results.
Message-ID: <Pine.LNX.4.33.0306200937440.29354-100000@neale.gpfn.sk.ca>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hunt #6 - N4DD -

The Cajun Thunder - 20

The Cheeseheads - 0

Wayne - K5E0A *
Vern - AA50
Wayne - N5YFC *
Jim - N5IB *
Mike - VA6MJT

Jerry - N9AW
Rick - NK9G
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and one more.

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Joe - KK5NA *
Wayne - W5KDJ *
Doc - W5TB
George - W5YR *

...any corrections, please e-mail me direct...72 - Bruce (VE5RC+VE5QRP)

Date: Fri, 20 Jun 2003 11:39:41 -0400
From: "Noyce, Bill" <william.noyce@hp.com>

To: <qrp-1@Lehigh.EDU>
Subject: [152619] Re: Source for VN 10 mosfets?
Message-ID:
<6D6463F31027B14FB3B1FB094F2C74470347AFAC@tayexc17.americas.cpqcorp.net>
content-class: urn:content-classes:message
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

Mouser <<http://www.mouser.com>> also appears to have them: 689-VN10KN3 for \$0.29 each. You might also consider whether the circuit can get by with a 2N7000, which differs mainly by having a smaller max drain current.

-- Bill, AB1AV

Date: Fri, 20 Jun 2003 09:03:17 -0700 (MST)
From: ac7a@earthlink.net
To: qrp-1@lehigh.edu
Subject: [152620] FOX - AC7A June 22, 2003
Message-ID: <6127321.1056125004158.JavaMail.nobody@donald.psp.pas.earthlink.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

All,

It will be my pleasure to serve as one of the FOX stations this coming Sunday, June 22, 2003.

My plan is to reside in the first QRM free spot, above 14.060MHz. I will call up, 1 to 2KHz, working the crowd. As things thin out, I will eventually call stations on my transmit frequency.

The radio will either be the K-2 (I am currently doing the 14 crystal replacment), or my trusty Omni-V at 5W. The antenna is a 5/16-wavelength vertical.

Regards, Thomas - AC7A (Tucson)

Date: Fri, 20 Jun 2003 11:33:21 -0500
From: "Dave Sjolin" <sjolin@swbell.net>
To: "Qrp-1 Reflector" <qrp-1@Lehigh.EDU>
Subject: [152621] Fox: Fox N0IT June 22, 2003

Message-ID: <053601c33749\$ac7dc610\$78d1fea9@DaveSjolin>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

It is my pleasure to again serve as one of the FOX stations this coming Sunday, June 22, 2003. Hopefully, I will be able to avoid Murphy this weekend.

I, N0IT, will operate around 14.055 MHz. At first I will be listening up about 1 KHz. As the pileup thins out, I will begin listening for stations on or very near my transmit frequency.

The rig will be a Kenwood TS-940S running 5 watts. The antenna will be a Cushcraft R5 vertical.

Looking forward to working even more of you than last time, including more of you at short distances. Give a listen for me and AC7A between 2200-2329Z this Sunday.

73 de Dave, N0IT (St. Louis, MO)

Date: Fri, 20 Jun 2003 12:46:11 -0400
From: "Hare,Ed, W1RFI" <w1rfi@arrl.org>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [152622] RE: ARRL article on Broadband over Power Line available on the ARRL page
Message-ID: <721D3436A7C2B344A301FD4A413C71A901735452@kosh.arrlhq.org>
content-class: urn:content-classes:message
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

Hi, Bill,

I would imagine that some on this list will be interested in your = questions, so let me answer them here. If it gets too out of hand, I = will move off list.=20

> An excerpt from the Part 15 rules (apparently) says:
> "...when performing measurements at a closer distance than
> specified, the results shall be extrapolated to the specified

> distance by either ... or by using the square of an inverse
 > linear distance extrapolation factor (40 dB/decade)."
 >=20
 > I'm having trouble seeing how "the square of an inverse linear"
 > factor is equivalent to 40dB.=20

As you correctly point out, the value of electric or magnetic fields =
 from an antenna do indeed vary inversely with distance, and the =
 resultant power density varies as the inverse squared, in the far field =
 region of the radiator. If one looks in the far field at the decrease =
 over a decade of distance, ie from 30 meters to 300 meters, if the field =
 strength were 20 volts/meter at 30 meters it would be 2 volts/meter at =
 300 meters. This is a voltage, not a power relationship, so one would =
 express this in dB as $20 \log(\text{ratio})$, or $20 \log(20/2)$ or 20 dB. If one =
 squares the voltages, as the rules state, the $20 \log(20^2/2^2)$ would =
 equate to 40 dB/decade.

EM theory does discuss how fields can vary at this rate in the reactive =
 near-field region of small radiators, but for a physically large system, =
 even a half-wave dipole, one is never close to the radiator -- one is =
 close to only part of the radiator, so the 40 dB/decade falls apart =
 pretty quickly.

=20
 > I was also uncertain whether you can simply add together the
 > 100,000 radiators within a station's hearing, by adding 50dB to
 > the power of an individual radiator. If they're uncorrelated,
 > you would need to add them in a root-mean-square way, so that
 > 100,000 radiators would translate to +25dB. But maybe I'm confused
 > again here -- the RMS addition applies to field strength, and
 > power is its square, so 50dB would be right.

Yes, if uncorrelated, a reasonable, but conservative, assumption in this =
 case, the fields would add in an RMS way, but by taking $20 \log(\text{RMS})$ =
 value we end up with $10 \log(\text{power})$ anyway, so the two are equivalent.

> The second point would be that, if a BPL system is causing
 > interference, it will likely be hard for amateurs to identify
 > that fact. The broadband / spread spectrum signal will most
 > likely sound a lot like atmospheric noise, and will not be
 > localized either in frequency or (point) location. Even if
 > we were confident that power companies would correct interference
 > once it's identified, how do we expect to identify it?

BPL can range from noiselike, although sufficiently different from =
 static as to be recognized as man made, to somewhat tonelike. If you =
 look at the videos at <http://www.arrl.org/tis/info/HTML/plc/#Video>, the =
 audio will give you an idea of the "tonelike" end. I believe for the =
 Austrian videos, the receiver was set in the AM mode, but I can't be =

sure. BTW, that "tonelike" aspect will mean that the radiators will =
probably not be entirely uncorrelated, but I chose 50 dB for two =
reasons. I wanted to be reasonably conservative, for one. I don't want =
to give the FCC anything except reasonable conclusions. Also, the =
resultant received signal level is going to be within the linear range =
of most amateur receivers, so I believe the effect will be more from the =
average power received level rather than the peak voltage in that =
received signal, so 10 log (number of radiator) seemed like an =
appropriate choice. If the RSL were higher, then the receiver AGC could =
respond to the peaks, but even then, one could argue about the effect. =20

I wouldn't necessarily concentrate on the skywave aspect. At this point, =
it is to me, still somewhat speculative. Even the 70 dB figure the paper =
presented was not necessarily representative. It would apply to a =
reasonably quiet RF environ. Many hams have a few tens of dB more =
ambient noise, while a few have less. But even if one were to be more =
conservative by 40 dB, that would still represent a significant local =
noise level.

73,=20
Ed Hare, W1RFI
ARRL Lab
225 Main St
Newington, CT 06111
Tel: 860-594-0318
Internet: w1rfi@arrl.org
Web: <http://www.arrl.org/tis>

> -----Original Message-----

> From: Noyce, Bill [<mailto:william.noyce@hp.com>]

> Sent: Friday, June 20, 2003 11:20 AM

> To: Low Power Amateur Radio Discussion

> Subject: Re: ARRL article on Broadband over Power Line=20

> available on the

> ARRL page

>=20

>=20

> Ed, thanks for the pointers, especially the technical one

> <<http://www.arrl.org/tis/info/HTML/plc/files/C63NovPLC.pdf>>

>=20

> It raised a few questions in my mind.

>=20

> An excerpt from the Part 15 rules (apparently) says:

> "...when performing measurements at a closer distance than

> specified, the results shall be extrapolated to the specified

> distance by either ... or by using the square of an inverse

> linear distance extrapolation factor (40 dB/decade)."
> I'm having trouble seeing how "the square of an inverse linear"
> factor is equivalent to 40dB. I would expect an inverse linear
> factor to be 10dB/decade, and its square to be 20dB. (And that
> appears to match experimental results.) Maybe I'm just confusing
> field strength with power here... For a normal antenna, don't
> we expect field strength to decrease linearly with distance, and
> power as the square of the distance? For a transmission line,
> I think we expect field strength to decrease with the square of
> the distance...
>=20
> I was also uncertain whether you can simply add together the
> 100,000 radiators within a station's hearing, by adding 50dB to
> the power of an individual radiator. If they're uncorrelated,
> you would need to add them in a root-mean-square way, so that
> 100,000 radiators would translate to +25dB. But maybe I'm confused
> again here -- the RMS addition applies to field strength, and
> power is its square, so 50dB would be right.
>=20
> I'd like to be sure I understand these issues before sending a
> comment. In my comment, I plan to make two points: first, that
> I operate QRP (typically 2 watts) on HF traffic nets, and this
> allows me to communicate all over New England using very low
> current, supplied by a small battery for a day or two, or by a
> small solar panel indefinitely, so medium-distance emergency
> communication can be carried anywhere by backpack, bicycle, or
> canoe. This is only possible because other stations can hear
> my low-power signal, which allows my battery to be portable.
> The second point would be that, if a BPL system is causing
> interference, it will likely be hard for amateurs to identify
> that fact. The broadband / spread spectrum signal will most
> likely sound a lot like atmospheric noise, and will not be
> localized either in frequency or (point) location. Even if
> we were confident that power companies would correct interference
> once it's identified, how do we expect to identify it?
>=20
> -- Bill, AB1AV
>=20

Date: Fri, 20 Jun 2003 09:52:08 -0700
From: Adam Farson <farson@shaw.ca>
To: Low Power Amateur Radio Discussion <qrp-l@LEHIGH.EDU>
Subject: [152623] FW: ARRL article on Broadband over Power Line available on the
ARRL
page
Message-ID: <BLEKJMCJB0EAAIECDNNCAEEHGIAA.farson@shaw.ca>

MIME-version: 1.0
Content-type: text/plain; charset=us-ascii
Content-transfer-encoding: 7BIT

Hi Alex,

BPL may not be as much of an issue as we fear. DOD and DHS appear to be implacably opposed to it, because of the potential for harmful interference to military and governmental HF operations. Thus, there is a strong possibility that NTIA will block its deployment.

>From what I gather, there is also growing opposition to BPL within the ITU.

Cheers for now, 73,
Adam VA7OJ/AB4OJ

-----Original Message-----

From: owner-qrp-1@Lehigh.EDU [mailto:owner-qrp-1@Lehigh.EDU] On Behalf Of Alex

Sent: Friday, June 20, 2003 07:41

To: Low Power Amateur Radio Discussion

Subject: Re: ARRL article on Broadband over Power Line available on the ARRL page

May I suggest to make the article you refer to, an "Attention All Amateurs" feature?

The article is already being snowed under, so to speak, on the main page by other articles. I think the urgency, which is stressed by the article and the request for money, and the fact that this issue has a deadline would warrant a more prominent place than a FAQ on how to use 5 frequencies in the 60 meter band. The FAQ may become obsolete soon if the BPL industry gets its way and interference issues are not addressed appropriately. (especially since 60 meters has a power limitation for us hams)

Thanks and 73,
--Alex KR1ST

"Hare, Ed, W1RFI" wrote:

>

> Ladies and gentlemen:

>

> ARRL has just posted an article that explains the issues on the FCC Notice of Inquiry on Broadband over Power Line technology. As a regular poster on

this forum, I urge you all to read the article and then file comemnts with the FCC.

>

> See:

>

> <http://www.arrl.org/news/features/2003/06/19/2/?nc=1>

>

> for the overview article. More technical details about BPL are found at:

>

> <http://www.arrl.org/tis/info/HTML/plc/files/C63NovPLC.pdf>

>

> A very comprehensive resource page has been posted at:

>

> <http://www.arrl.org/tis/info/HTML/plc>

>

> 73, Ed Hare, W1RFI

Date: Fri, 20 Jun 2003 11:15:05 -0600
From: William R Colbert <w5xe@juno.com>
To: qrp-l@lehigh.edu
Subject: [152624] Re: 6mtr Calling Freqs
Message-ID: <20030620.111741.-665327.3.w5xe@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

for info of those that may be in the area-
there is a current opening between New
Mexico-Far West Texas are into Western
Montana. S9 signals.

73

Ray

"Texas can make it without the United States,
but the United States can't make it without Texas."

Sam Houston, Governor

Ray Colbert, W5XE, 00TC#3618, SOWP#1064M GQRP-6115

ARCI-5784 NCT2R FP-111 El Paso, (FAR WEST) TEXAS

Date: Fri, 20 Jun 2003 11:17:40 -0600
From: William R Colbert <w5xe@juno.com>
To: qrp-l@lehigh.edu
Subject: [152625] bands back to normal?

Message-ID: <20030620.111741.-665327.4.w5xe@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

It seems that the bands may be returning to a form of normalcy. Worked JA4CF0 on 14.060, 4 watts into my vertical - no 60+ ft tower or multi element beam required for a nice 20 min qso. Mase was running an OHR 400 at 5 watts. Time again to listen and work qrp on 14060.

73

Ray

"Texas can make it without the United States,
but the United States can't make it without Texas."
Sam Houston, Governor
Ray Colbert, W5XE, 00TC#3618, SOWP#1064M GQRP-6115
ARCI-5784 NCT2R FP-111 El Paso, (FAR WEST) TEXAS

Date: Fri, 20 Jun 2003 18:37:52 +0100
From: "Leon Heller" <leon_heller@hotmail.com>
To: "Low Power" <qrp-l@Lehigh.EDU>
Subject: [152626] Miniature speaker tested
Message-ID: <Law15-DAV143ZMv0PEN0001bd79@hotmail.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I've just tried one of those tiny speakers on the output of a TDA7052, connected to a radio. With the unit simply soldered to the PCB speech quality was good and there was plenty of output - no baffle or case needed. It's not too bad with music, although there is no base response. It should be quite usable for a QRP rig if there isn't too much ambient noise. It sounds better than the speaker in my Alinco DJ-G5 handheld radio.

73, Leon

--

Leon Heller, G1HSM
leon_heller@hotmail.com
http://www.geocities.com/leon_heller

Date: Fri, 20 Jun 2003 13:42:09 -0400 (EDT)
From: Doug Faunt N6TQS +1-510-655-8604 <faunt@panix.com>
To: qrp-1@Lehigh.EDU
Subject: [152627] Transistor switching question?
Message-ID: <200306201742.h5KHg9c21888@panix2.panix.com>

I need a isolated solid state switch that'll pull down very close to ground. The usual optoisolators don't, apparently, pull down far enough.

Can I use the output of the optoisolator to drive the gate of a 2N7000 to accomplish this?

73, doug

Date: Fri, 20 Jun 2003 13:43:40 -0400
From: Alex <kr1st@amsat.org>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [152628] Re: FW: ARRL article on Broadband over Power Line available on the
ARRLpage
Message-ID: <3EF347CC.BD5D6315@amsat.org>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii
Content-transfer-encoding: 7bit

Hi Adam,

I know NATO had some interest in European tests as they are mentioned in some documents, but I have never heard anything (yet) about its findings. It may be out there somewhere, but I haven't seen it.

Then again there are always two ways to make your concerns known. One is a formal, open, but not necessarily effective way, through submission of comments for us mere mortals, and the other, very effective, but closed way, of personal contact for those of us with bigger interests. We've seen that recently with the changes in mass media regulations.

I hope you're right, Adam.

73,
--Alex KR1ST

Adam Farson wrote:

>

> Hi Alex,
>
> BPL may not be as much of an issue as we fear. DOD and DHS appear to be
> implacably opposed to it, because of the potential for harmful interference
> to military and governmental HF operations. Thus, there is a strong
> possibility that NTIA will block its deployment.
>
> >From what I gather, there is also growing opposition to BPL within the ITU.
>
> Cheers for now, 73,
> Adam VA7OJ/AB4OJ

Date: Fri, 20 Jun 2003 14:35:24 -0400
From: "Joe Everhart" <n2cx@voicenet.com>
To: "qrpl" <qrpl@lehigh.edu>
Cc: "njqrp" <njqrp@njqrp.org>
Subject: [152629] Definitely ON topic "atomic clock" response
Message-ID: <000f01c3375a\$b7783a80\$bc3947d1@n2cxtoy>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Gang,

Plenty of neat replies to my clock comments and one not-so-neat response.

Basically folks told me that larger loops could be coupled my clock's antenna by proximity to get more signal.

And several noted that the difficulty in syncing in fringe areas was more likely due to poor SNR than too little signal - how right they are!

One cure is to sync late at night when the signal is stronger and local electrical noise is lower. Many of these clocks do that. However the documentation with mine is silent on that. Guess I'll have to stay up late some night and check!

The not-so-neat response is, I believe from some sort of web sniffer. I've been spammed by the "Sino-Pop Corporation from mainland China" who tells me that they are a leading manufacturer of clocks from over that way. Coincidence? Perhaps but I think not. On the positive side at least it's not from someone named Candi or Heidi pushing you-know-what on the web or offering to either grow or shrink various

and sundry body parts!

72/73,

Joe E., N2CX

Date: Fri, 20 Jun 2003 13:00:53 -0600
From: "JessMX5" <jessmx5@earthlink.net>
To: <n1ix@att.net>,
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [152630] Re: IC-703
Message-ID: <01c601c3375e\$46f523f0\$6501a8c0@Jess>
MIME-Version: 1.0
Content-Type: text/plain;
charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Really impressive radio huh?

Jess

----- Original Message -----

From: <n1ix@att.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Friday, June 20, 2003 12:14 AM
Subject: FS: IC-703

>
> FS like new IC-703 with Inrad 400HZ CW filter installed. Original
packaging,
> manual, cord, plugs.
> \$625 plus shipping from 03858
>
> Dave N1IX
>
>

Date: Fri, 20 Jun 2003 15:17:12 -0400
From: Alex <kr1st@amsat.org>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Subject: [152631] The end of the PTT button
Message-ID: <3EF35DB8.89AC0327@amsat.org>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii
Content-transfer-encoding: 7bit

Just when you thought you've seen it all:

[http://www.corporate-ir.net/ireye/ir_site.zhtml?
ticker=nxntl&script=410&layout=-6&item_id=424319](http://www.corporate-ir.net/ireye/ir_site.zhtml?ticker=nxntl&script=410&layout=-6&item_id=424319)

Nextel just succeeded getting the phrase "Push To Talk" marked for trade. I guess that's the end of voice modes. They also have PTT trademarked. Someone better get that trademark on CW (tm).

73,
--Alex KR1ST

Date: Fri, 20 Jun 2003 15:22:34 -0400
From: "cal.jsi" <cal.jsi@verizon.net>
To: "QRP-L" <qrp-l@Lehigh.edu>
Subject: [152632] OT - 32 Volt Farm Electrical Systems
Message-ID: <000701c33761\$4e00b350\$fc53fea9@Sharon>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi all,

This is with regard to the postings about using windmills to generate power for QRP operation. As with many good ideas, it isn't new. In fact a lot of farms, perhaps the majority in the Midwest had windmills used for pumping water and for powering 32 Volt Direct Current electrical systems. Such windmills were on towers 30 to 50 feet high and with blades several feet in diameter. And they probably powered a good many amateur radio stations in the days when there were only nine call areas in the continental US.

DC generators powered a bank of storage batteries, with the de-facto standard being 32 Volts. These systems provided power for limited electrical lighting, running appliances such as cream separators, providing Christmas tree lights and yes, radio receivers. A major manufacturer was Delco. In the US, this passed into history following passage of the Rural Electrification Act (REA) in the mid-1930s. My father, born in 1896 to a farm family, would have lived a good part of his life with such systems. In fact, I seem to recall that he spent a Sabbatical leave in the late 1930s (he was a Professor of Electrical Engineering by then) working on the power

systems that the REA brought to eastern Oklahoma in the late 1930s. And he then helped wire up the family farm in western Ohio for 115 Volt AC. All of this was before I was born, and I was a pre-War (1941) baby.

Dad and I used to putter a lot in our basement which was chock full of old radios. I can remember him pointing out a couple that were farm radios, designed to operate from 32 Volts DC. I expect that a low voltage storage battery might have been used for the filaments, with a vibrator power supply giving the high voltage. Today, I wish I'd listened more carefully to such explanations.

So yes, windmills were and are a practical source of power. But think about this. What if photovoltaic solar panels had been available early in the 20th century. Would windmills have been part of the rural landscape throughout the 20s, 30s and 40s?

72/73

Cal K4JSI

Date: Fri, 20 Jun 2003 12:21:40 -0700
From: Adam Farson <farson@shaw.ca>
To: Low Power Amateur Radio Discussion <qrp-l@LEHIGH.EDU>
Subject: [152633] RE: The end of the PTT button
Message-ID: <BLEKJMCJB0EAAIECDNNCGEEPGLAA.farson@shaw.ca>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii
Content-transfer-encoding: 7BIT

Hi Alex,

How about the good old British Army term "pressel switch" (as in the key on the mic or handset used with the WS19)? It was probably Crown Copyright at one time, but that must have expired ages ago.

Cheers for now, 73,
Adam VA70J/AB40J

-----Original Message-----

From: owner-qrp-l@Lehigh.EDU [mailto:owner-qrp-l@Lehigh.EDU] On Behalf Of Alex
Sent: Friday, June 20, 2003 12:17
To: Low Power Amateur Radio Discussion
Subject: The end of the PTT button

Just when you thought you've seen it all:

http://www.corporate-ir.net/ireye/ir_site.zhtml?ticker=nxtl&script=410&layout=-6&item_id=424319

Nextel just succeeded getting the phrase "Push To Talk" marked for trade. I guess that's the end of voice modes. They also have PTT trademarked. Someone better get that trademark on CW (tm).

73,
--Alex KR1ST

Date: Fri, 20 Jun 2003 13:37:31 -0600 (MDT)
From: Karl Larsen <k5di@msn.com>
To: William R Colbert <w5xe@juno.com>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [152634] Re: bands back to normal?
Message-ID: <Pine.LNX.4.44.0306201333230.2725-1000000@bucket.dog>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi Ray, I have a sched with WF5A/KL7 somewhere in Alaska at 0830AM on Saturday morning at 14.060 MHz. Karl will be using a FT-817 to a wire out the window of his hotel. By the way it's 0830 MDT.

Anyone who can join us is welcome.

On Fri, 20 Jun 2003, William R Colbert wrote:

> It seems that the bands may be returning to
> a form of normalcy. Worked JA4CF0 on
> 14.060, 4 watts into my vertical - no 60+ ft
> tower or multi element beam required for a
> nice 20 min qso. Mase was running an OHR
> 400 at 5 watts. Time again to listen and work
> qrp on 14060.
>
> 73
> Ray
> "Texas can make it without the United States,
> but the United States can't make it without Texas."

> Sam Houston, Governor
> Ray Colbert, W5XE, 00TC#3618, SOWP#1064M GQRP-6115
> ARCI-5784 NCT2R FP-111 El Paso,(FAR WEST) TEXAS
>

--

- Karl Larsen k5di Las Cruces,NM Az ScQRPions -

Date: Fri, 20 Jun 2003 13:50:39 -0600 (CST)
From: "Brian.Buydens@usask.ca" <buydens@duke.usask.ca>
To: "cal.jsi" <cal.jsi@verizon.net>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [152635] Re: OT - 32 Volt Farm Electrical Systems
Message-ID: <Pine.OSF.4.53.0306201346280.400189@duke.usask.ca>
MIME-version: 1.0
Content-type: TEXT/PLAIN; charset=US-ASCII

It appears some radios ran 32 volts on the plates. See:

<http://www.mcclellans.com/KarolaRestoration.htm>

In Saskatchewan electrification did not take place until after WWII. One thing I have often wondered is that I can still see dis-used "water-pump" type windmills around rural Saskatchewan, but it is very rare to see a wind generator. Were they just less common?

Brian (born well after WWII)

On Fri, 20 Jun 2003, cal.jsi wrote:

> DC generators powered a bank of storage batteries, with the de-facto
> standard being 32 Volts. These systems provided power for limited
> electrical lighting, running appliances such as cream separators, providing
> Christmas tree lights and yes, radio receivers. A major manufacturer was
> Delco. In the US, this passed into history following passage of the Rural
> Electrification Act (REA) in the mid-1930s. My father, born in 1896 to a

[snip]

> Dad and I used to putter a lot in our basement which was chock full of
> old radios. I can remember him pointing out a couple that were farm radios,

> designed to operate from 32 Volts DC. I expect that a low voltage storage
> battery might have been used for the filaments, with a vibrator power supply
> giving the high voltage. Today, I wish I'd listened more carefully to such
> explanations.

[snip]

> So yes, windmills were and are a practical source of power. But think
> about this. What if photovoltaic solar panels had been available early in
> the 20th century. Would windmills have been part of the rural landscape
> throughout the 20s, 30s and 40s?
> 72/73
> Cal K4JSI

Brian Buydens
Veterinary Electronic Data Specialist
Computing Services, University of Saskatchewan
email: Brian.Buydens@usask.ca
<http://duke.usask.ca/~buydens>
VE5RDV

I am a proud citizen of "Soviet Canuckistan"

Date: Fri, 20 Jun 2003 19:58:31 +0000
From: "Leon Heller" <leon_heller@hotmail.com>
To: kr1st@amsat.org, qrp-l@Lehigh.EDU
Subject: [152636] Re: The end of the PTT button
Message-ID: <Law15-F92efLJGWSa1a0002bf08@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

>From: Alex <kr1st@amsat.org>
>Reply-To: kr1st@amsat.org
>To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
>Subject: The end of the PTT button
>Date: Fri, 20 Jun 2003 15:17:12 -0400

>
>Just when you thought you've seen it all:
>
>[http://www.corporate-ir.net/ireye/ir_site.zhtml?](http://www.corporate-ir.net/ireye/ir_site.zhtml?ticker=nxtl&script=410&layout=-6&item_id=424319)
>[ticker=nxtl&script=410&layout=-6&item_id=424319](http://www.corporate-ir.net/ireye/ir_site.zhtml?ticker=nxtl&script=410&layout=-6&item_id=424319)
>
>Nextel just succeeded getting the phrase "Push To Talk" marked for
>trade. I guess that's the end of voice modes. They also have PTT
>trademarked. Someone better get that trademark on CW (tm).

British military personnel call them 'pressels'. Perhaps we ought to, as well. 8-)

73, Leon

--

Leon Heller, G1HSM Tel: +44 1424 423947
Email:leon_heller@hotmail.com
My web page: http://www.geocities.com/leon_heller

Express yourself with cool emoticons - download MSN Messenger today!
<http://www.msn.co.uk/messenger>

Date: Fri, 20 Jun 2003 16:06:28 -0400
From: Alex <kr1st@amsat.org>
To: farson@shaw.ca
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [152637] Re: The end of the PTT button
Message-ID: <3EF36944.2636AEC9@amsat.org>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii
Content-transfer-encoding: 7bit

Hi Adam,

Now there's an idea! Or RTL, Release To Listen, for some folks. :) But I'm sure you've heard of that one.:)

73,
--Alex KR1ST

Adam Farson wrote:

>
> Hi Alex,

>
> How about the good old British Army term "pressel switch" (as in the key on
> the mic or handset used with the WS19)? It was probably Crown Copyright at
> one time, but that must have expired ages ago.
>
> Cheers for now, 73,
> Adam VA7OJ/AB4OJ
>
> -----Original Message-----
> From: owner-qrp-l@Lehigh.EDU [mailto:owner-qrp-l@Lehigh.EDU] On Behalf Of
> Alex
> Sent: Friday, June 20, 2003 12:17
> To: Low Power Amateur Radio Discussion
> Subject: The end of the PTT button
>
> Just when you thought you've seen it all:
>
> [http://www.corporate-ir.net/ireye/ir_site.zhtml?ticker=nxtl&script=410&layout](http://www.corporate-ir.net/ireye/ir_site.zhtml?ticker=nxtl&script=410&layout=t=-6&item_id=424319)
> [t=-6&item_id=424319](http://www.corporate-ir.net/ireye/ir_site.zhtml?ticker=nxtl&script=410&layout=t=-6&item_id=424319)
>
> Nextel just succeeded getting the phrase "Push To Talk" marked for
> trade. I guess that's the end of voice modes. They also have PTT
> trademarked. Someone better get that trademark on CW (tm).
>
> 73,
> --Alex KR1ST

Date: Fri, 20 Jun 2003 13:11:08 -0700
From: John Rollins <kd7bcy@teleport.com>
To: QRP-L <qrp-l@lehigh.edu>
Subject: [152638] Re: Whatever happened to all those PSK-80 Warblers?
Message-ID: <a05200f00bb191a118488@[63.187.200.102]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii" ; format="flowed"

>Indeed it's often slim pickens on 80 meter PSK. I often check 80 meters
>for activity but usually my CQs go nowhere. Almost always it's before
>10pm EST though when I'm on the radio since I get up rather early in the
>morning.

That's a relief... I was beginning to think my Warbler just plain
didn't work! I have been plugging it all in every few days and I've
never seen any PSK-31 signals. Or much of anything else except noise.
Then again, my 817 hasn't had much better luck on 80, but there are
always a few strong voice signals somewhere(my fav is sitting around
at 3am listening to W6OBB and all on 75m, just out of reach of the

General class sub bands - I'm working on the Extra upgrade right now).

--

```
/-----\  
| http://jrollins.tripod.com/           |  
| KD7BCY      kd7bcy@teleport.com      |  
\-----/
```

Date: Fri, 20 Jun 2003 16:18:08 -0400
From: "Mike Warner" <mdwarner@paonline.com>
To: "qrp-1@Lehigh. EDU" <qrp-1@Lehigh.EDU>
Subject: [152639] HW-8
Message-ID: <OHENLNOPHEGFPBCPKCLCMENLCAAA.mdwarner@paonline.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hello,
I am searching for a replacement VFO tuning capacitor for a Heathkit HW-8.
This is heath part number 26-152 and is 5.2 to 15.1pF.
The new HW-8 handbook says that Oren Elliot Company is a source but emails
and phone calls to them have not been successful.
Anyone know of a source for a replacement cap?

tnx
Mike N3XPD

Date: Fri, 20 Jun 2003 17:03:48 -0400
From: "Bill, N4QA" <n4qa@hotmail.com>
To: qrp-1@Lehigh.EDU
Subject: [152640] Re: The end of the PTT button
Message-ID: <BAY1-F102P0ZAUGZlvf0001fac6@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Aren't "Pressels" something one orders when they've had a few too many... :)

How I miss Foster Brooks... r.i.p.

Hey, y'all!

I just ordered N4QA.com plates from the Virginia DMV...y'all got 'em in ur state?

Ur not required to have a radio (though I usually do) in the car as with ham plates.

Not enough digits to add /QRP, though...darn!

Hmmm...wonder if QRP.com is available...

73.

Bill, N4QA

<http://www.n4qa.com/>

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<http://join.msn.com/?page=features/junkmail>

Date: Fri, 20 Jun 2003 16:53:34 -0400 (EDT)

From: <ah7i@atl.org>

To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

Subject: [152641] Re: Wooden alternator

Message-ID: <Pine.LNX.4.33.0306201653160.10780-1000000@localhost.localdomain>

MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

Alternate power topic...

How about dragging that old satellite dish out from under the trailer (errrr mobile home) The C band dish. 3M spary mount adhesive, a roll of Al foil, and the sun and you've some 2KW at noon focused to a spot no bigger than a couple of CM. Some tubing for water to cool one side of a peltier thermocouple and it should be possible to get some useable number of Watts recovered. Use the steam from the cold side of the Peltier device for cooking hot dogs, steaming fish (with ginger and soy sauce, I recommend Thai Gobi) removign labels from cans used for chassis material (it's steel, it's cheap, and it's plated so it solders easily and it's easy to cut with the kitchens chicken scizzors). That 2KW from a C band 8' dia dish at noon. Use a 12' and get 4KW! Use the steam for your Stirling motor? Heat the hot tub in the winter time? Ignite a spliff, relax, work some DX.

Defunct C band dishes are 'everywhere' and usually FREE or maybe you can even get paid to take one! Do not look into focus with remaining eye...

-Bob

ah7i, ah7i/w4

Date: Fri, 20 Jun 2003 17:12:31 -0400
From: "Mike Yetsko" <myetsko@insydesw.com>
To: <ah7i@atl.org>,
 "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [152642] Re: Wooden alternator
Message-ID: <004201c33770\$b9c583e0\$0200a8c0@charter.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Years ago, in the scholastic book club, I got this 'Solar Science Projects' that had lots of neat things.

While it didn't have a power generator, it DID have a dish that you made that would cook a meal on a fry pan at the focal point. You made the dish out of posterboard and covered it with foil.

But yeah... You could get some copper tubing, and put black anodized coiled pipe at the focal point, and

Mike

Date: Fri, 20 Jun 2003 17:24:12 -0400
From: Lee Mairs <lmairs@direcway.com>
To: cal.jsi@verizon.net,
 Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [152643] Re: OT - 32 Volt Farm Electrical Systems
Message-ID: <00da01c33772\$4ef2f2d0\$3b6d020a@boomer>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

Cal raises a good point about solar panels. I just installed a small two panel (240 watt) system at a house on an island that is off the grid. We picked the one sunny day of the last several months to do the final hookup. At noon, I observed over 13 amps roaring into his 1200 AH storage battery system. If it wasn't for cold 807s, I think one could get off the grid now

for less than \$10,000.
73 de Lee
km4yy/8

> So yes, windmills were and are a practical source of power. But
think
> about this. What if photovoltaic solar panels had been available early in
> the 20th century. Would windmills have been part of the rural landscape
> throughout the 20s, 30s and 40s?
> 72/73
> Cal K4JSI
>
>
>
>

Date: Fri, 20 Jun 2003 17:40:49 -0400
From: "carl seyersdahl" <carlseye@tampabay.rr.com>
To: <kr1st@amsat.org>,
"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [152644] Re: The end of the PTT button
Message-ID: <000f01c33774\$9dfddd20\$162c2041@tampabay.rr.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

It's almost unbelievable that "anyone" could get a "trademark" on something like that (PTT, ETC)..

BUT, I do remember something from "many" years back.!!! How many of you remember "bell telephone's " Blue logo.???

I seem to remember that someone had discovered that the "blue bell" emblem was not trademarked, and they then trademarked that emblem, and then sued Bell , and dammed if they didn't win..

That is why today you don't see the "solid" blue phone emblem anymore.!!!! you can see the "outline" bell , but that's all.!!!

carl / kz5ca

----- Original Message -----

From: "Alex" <kr1st@amsat.org>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Friday, June 20, 2003 3:17 PM
Subject: The end of the PTT button

> Just when you thought you've seen it all:
>
>
[http://www.corporate-ir.net/ireye/ir_site.zhtml?
ticker=nxtl&script=410&layout=-6&item_id=424319](http://www.corporate-ir.net/ireye/ir_site.zhtml?ticker=nxtl&script=410&layout=-6&item_id=424319)
>
> Nextel just succeeded getting the phrase "Push To Talk" marked for
> trade. I guess that's the end of voice modes. They also have PTT
> trademarked. Someone better get that trademark on CW (tm).
>
> 73,
> --Alex KR1ST
>

Date: Fri, 20 Jun 2003 16:43:18 -0500
From: Wayne Rogers <w5kdj@juno.com>
To: kr1st@amsat.org
Cc: qrp-l@Lehigh.EDU
Subject: [152645] Re: The end of the PTT button
Message-ID: <20030620.164318.-1664233.0.w5kdj@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Sprint PCS should be turning up PTT very shortly. This will probably do
Nextel in as thats all they have to
offer.

Wayne_W5KDJ
ex: SV0WWW_TF2WJN *e-QSL*
ARS_1392 ARCI_11325 FP-626
FISTS_10060 SOC_538

Date: Fri, 20 Jun 2003 17:49:51 -0400
From: Peter Burbank <peterlee@qx.net>
To: ah7i@atl.org,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [152646] Re: Wooden alternator
Message-ID: <5.2.0.9.0.20030620174014.009f3800@mail.qx.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

If you got a peltier device that hot it would go into meltdown. I believe the junction solders are low temp.....like wood's metal.
Pete NV4V

At 04:53 PM 6/20/2003, ah7i@atl.org wrote:

>Alternate power topic...

>

>How about dragging that old satellite dish out from under the trailer
>(errrr mobile home) The C band dish. 3M spary mount adhesive, a roll of Al
>foil, and the sun and you've some 2KW at noon focused to a spot no bigger
>than a couple of CM. Some tubing for water to cool one side of a peltier
>thermocouple and it should be possible to get some useable number of Watts
>recovered. Use the steam from the cold side of the Peltier device for
>cooking hot dogs, steaming fish (with ginger and soy sauce, I recommend
>Thai Gobi) remove labels from cans used for chassis material (it's
>steel, it's cheap, and it's plated so it solders easily and it's easy to
>cut with the kitchen's chicken scissors). That 2KW from a C band 8' dia
>dish at noon. Use a 12' and get 4KW! Use the steam for your Stirling
>motor? Heat the hot tub in the winter time? Ignite a spliff, relax, work
>some DX.

>

>Defunct C band dishes are 'everywhere' and usually FREE or maybe you can
>even get paid to take one! Do not look into focus with remaining eye...

>

>-Bob

>ah7i, ah7i/w4

Date: Fri, 20 Jun 2003 18:23:26 -0400

From: "Sam Billingsley" <sambillingsley@earthlink.net>

To: <ATRAIL@yahoogroups.com>

Cc: <qrp-1@lehigh.edu>, <nogaqrp@mailman.qth.net>

Subject: [152647] Appalachian Trail QRP expedition to Woody Gap (near Suches, GA)

Sat 6/21/03 1600Z - 2200Z AE4GX

Message-ID: <01a501c3377a\$91e8d980\$6401a8c0@BIGBOX>

MIME-Version: 1.0

Content-Type: text/plain;
charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Barring bad weather I plan to drive from Atlanta to Woody Gap, GA tomorrow

morning and operate from the AT crossing at Woody Gap (GA) from 1600Z - 2200Z 6/21/03 with breaks.

The rig will be the AT Sprint (designed and kitted by Steve KD1JV) and the antenna will be a W3EDP 87 ft wire in an inverted L configuration at about 25 ft. My Altioids L-tuner will serve as matching device. Power supply 10 AA NimH cells.

The AT Sprint is a 4-5 watt, multi-band, DDS VFO rig using plug-in band modules to operate 40/30/20 meters. It's housed in an Altioids Box. This is the first field trip with the rig. I tunes in 100 Hz increments and the IF xtal filter blocks signals more than +/- 200 Hz away but I have RIT so will use it for +/- 200-400 Hz RX checks.

I plan to operate within +/- 3 kHz of QRP calling frequencies (14.060,10.106,7.040) and will use CQ AT DE AE4GX/4 as calling string.

For those folks wanting GA AT contact I'll try to try all three bands starting with 20 then 30 then 40. If I'm lucky enough to have activity for an hour on any band I will try to switch on the hour to try an catch as many as possible. I'm not a contest operator so bear with me.

BTW Woody Gap is on the AT trail about 20 miles north from the southern end and a mile or two from the nearest town Suches, GA (Suches is about 75 miles north of Atlanta,GA).

Sam AE4GX
North Goergia QRP Club

Date: Fri, 20 Jun 2003 18:25:45 -0400
From: Dave Fouchey <dafouchey@comcast.net>
To: myetsko@insydesw.com,
Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [152648] Re: Wooden alternator
Message-ID: <5.2.1.1.2.20030620182436.00a3bac0@localhost>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii; format=flowed
Content-transfer-encoding: 7BIT

I still HAVE that book! From Oh SO many years ago....

Remember the Fresnel Lens Furnace? Focus that energy on a heat exchanger and..

Dave

WA4EMR

At 05:12 PM 6/20/03 -0400, Mike Yetko wrote:

>Years ago, in the scholastic book club, I got this 'Solar Science
>Projects'
>that had lots of neat things.

>

>While it didn't have a power generator, it DID have a dish that you made
>that would cook a meal on a fry pan at the focal point. You made the
>dish out of posterboard and covered it with foil.

>

>But yeah... You could get some copper tubing, and put black anodized
>coiled pipe at the focal point, and

>

>Mike

Date: Fri, 20 Jun 2003 18:26:28 -0400 (EDT)
From: Thom LaCosta <baltimoremd@baltimoremd.com>
To: Alex <kr1st@amsat.org>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [152649] Re: Whatever happened to all those PSK-80 Warblers?
Message-ID: <20030620182552.E9783-1000000@unix1.vhost.min.net>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Fri, 20 Jun 2003, Alex wrote:

> I wonder what W1AW/the ARRL considers to be the minimal power necessary
> for their broadcasts.

Most likely whatever gives them global coverage.

Thom

baltimoremd@baltimoremd.com
<http://www.baltimoremd.com/>
<http://www.baltimorehon.com/>
<http://www.zerobeat.net>
<http://www.tlchost.net>

Thom LaCosta K3HRN Webmaster
Baltimore's Home Page
Home of the Baltimore Lexicon
Home of The QRP Web Ring and DrakeList
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Date: Fri, 20 Jun 2003 23:23:11 GMT

From: psschwarz@kellnet.com
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [152650] 10 meters
Message-ID: <20030620232311.6430.qmail@mail.kellnet.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed; charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

band opening? heard the WB0FTL beacon this evening on 28.216. first i've
heard a beacon outside oh hi o.

patrick...KB8RTZ...

End of QRP-L Digest 2957
